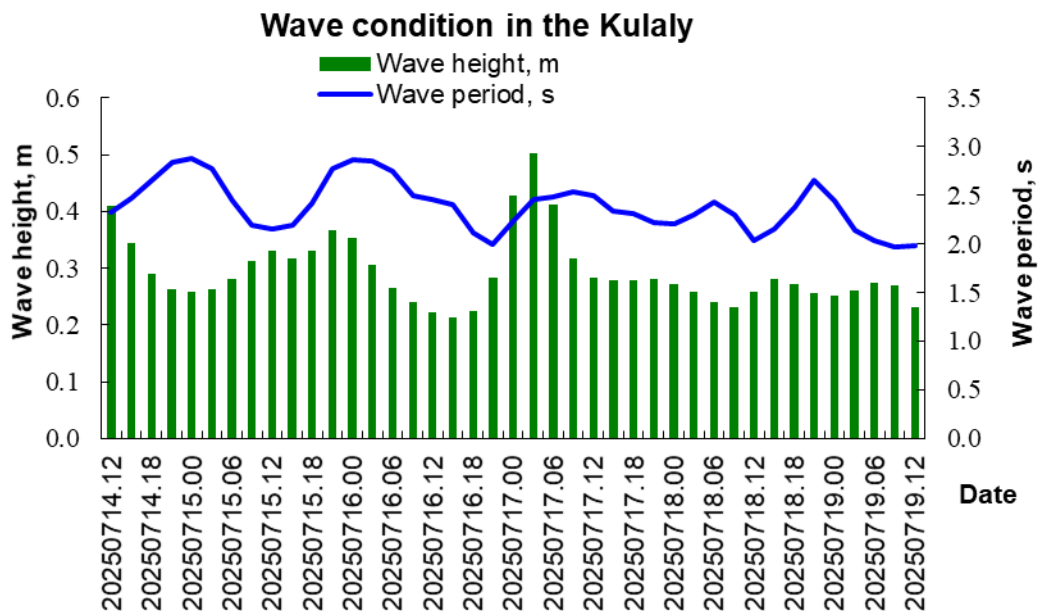
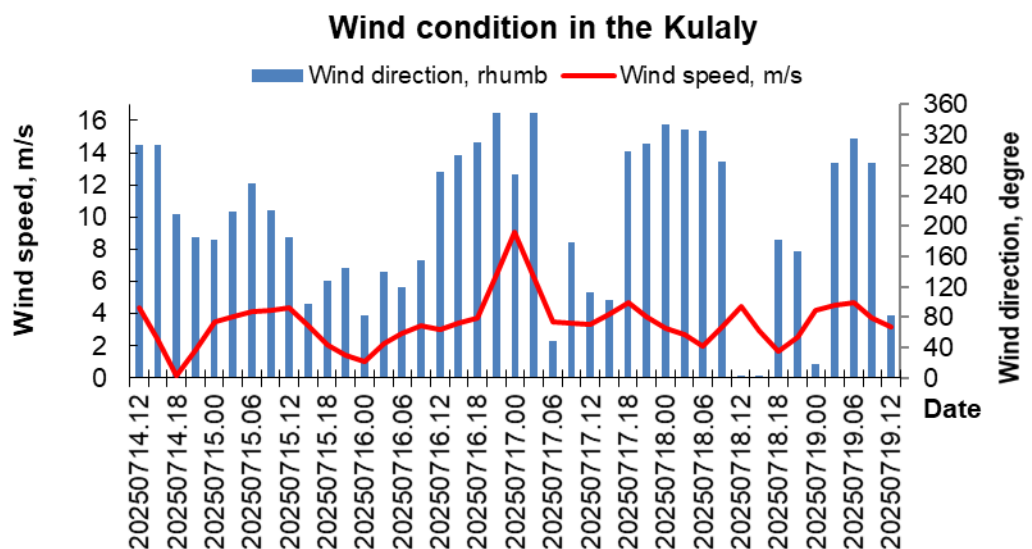




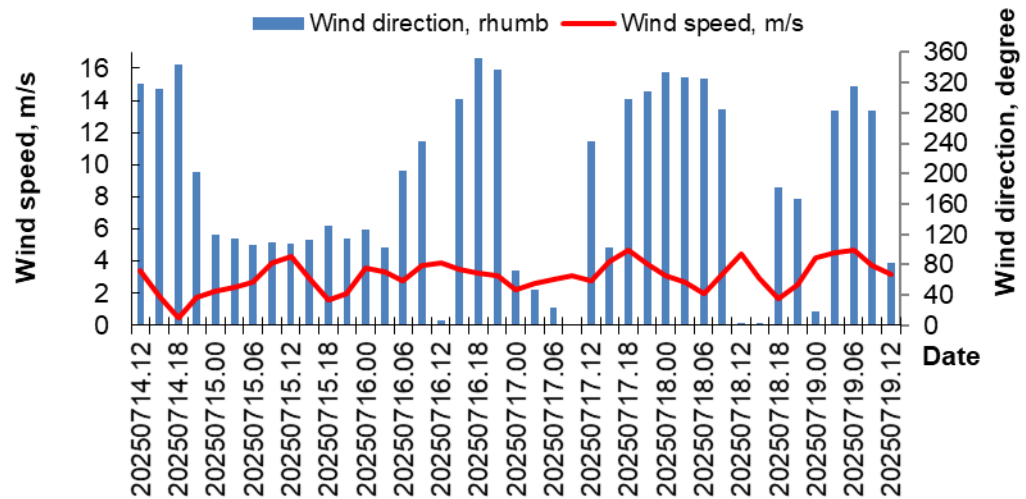
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period July 14 – 19, 2025.**

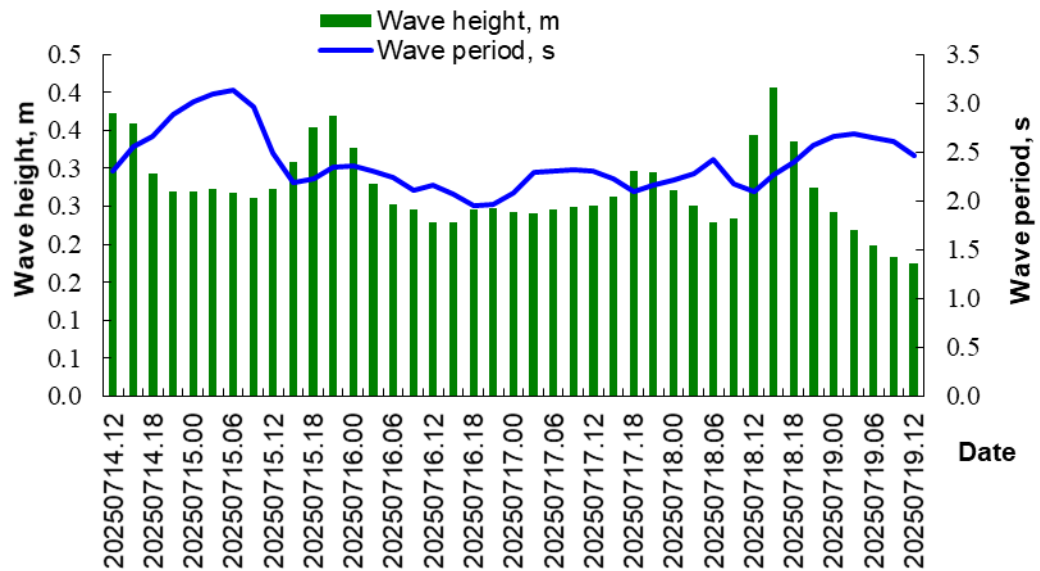


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250714.12	0.41	SE	2.3	4	NW
20250714.15	0.34	SE	2.5	2	NW
20250714.18	0.29	SE	2.7	0	SW
20250714.21	0.26	SE	2.8	2	S
20250715.00	0.26	SE	2.9	4	S
20250715.03	0.26	SE	2.8	4	SW
20250715.06	0.28	SE	2.4	4	W
20250715.09	0.31	SE	2.2	4	SW
20250715.12	0.33	S	2.2	4	S
20250715.15	0.32	S	2.2	3	E
20250715.18	0.33	S	2.4	2	SE
20250715.21	0.37	SE	2.8	1	SE
20250716.00	0.35	SE	2.9	1	E
20250716.03	0.31	SE	2.9	2	SE
20250716.06	0.27	S	2.8	3	SE
20250716.09	0.24	S	2.5	3	SE
20250716.12	0.22	S	2.5	3	W
20250716.15	0.21	S	2.4	3	NW
20250716.18	0.22	SE	2.1	4	NW
20250716.21	0.28	SE	2.0	6	N
20250717.00	0.43	S	2.2	9	W
20250717.03	0.50	S	2.5	6	N
20250717.06	0.41	S	2.5	4	NE
20250717.09	0.32	S	2.5	3	S
20250717.12	0.28	SE	2.5	3	SE
20250717.15	0.28	SE	2.3	4	E
20250717.18	0.28	SE	2.3	5	NW
20250717.21	0.28	SE	2.2	4	NW
20250718.00	0.27	SE	2.2	3	NW
20250718.03	0.26	SE	2.3	3	NW
20250718.06	0.24	SE	2.4	2	NW
20250718.09	0.23	SE	2.3	3	W
20250718.12	0.26	E	2.0	4	N
20250718.15	0.28	E	2.1	3	N
20250718.18	0.27	E	2.4	2	S
20250718.21	0.26	E	2.7	3	S
20250719.00	0.25	E	2.4	4	N
20250719.03	0.26	E	2.1	5	W
20250719.06	0.27	E	2.0	5	NW
20250719.09	0.27	E	2.0	4	W
20250719.12	0.23	E	2.0	3	E

Wind condition in the Fort-Shevchenko

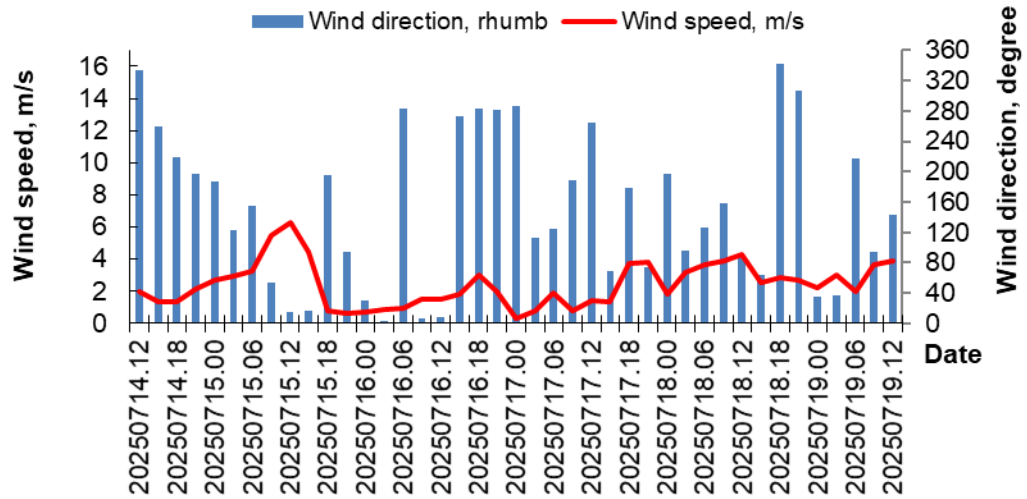


Wave condition in the Fort-Shevchenko

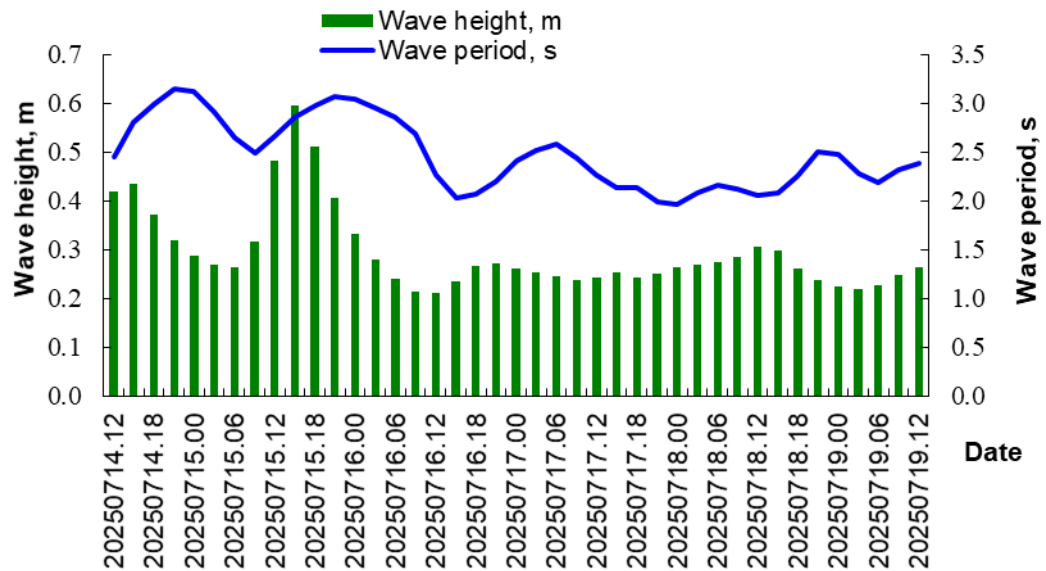


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250714.12	0.37	SE	2.3	3	NW
20250714.15	0.36	SE	2.6	2	NW
20250714.18	0.29	SE	2.7	0	N
20250714.21	0.27	SE	2.9	2	S
20250715.00	0.27	SE	3.0	2	SE
20250715.03	0.27	SE	3.1	2	SE
20250715.06	0.27	SE	3.1	3	E
20250715.09	0.26	SE	3.0	4	E
20250715.12	0.27	SE	2.5	4	E
20250715.15	0.31	S	2.2	3	SE
20250715.18	0.35	S	2.2	2	SE
20250715.21	0.37	S	2.3	2	SE
20250716.00	0.33	S	2.4	4	SE
20250716.03	0.28	S	2.3	3	E
20250716.06	0.25	S	2.2	3	SW
20250716.09	0.25	SW	2.1	4	SW
20250716.12	0.23	S	2.2	4	N
20250716.15	0.23	SE	2.1	3	NW
20250716.18	0.25	SE	2.0	3	N
20250716.21	0.25	SE	2.0	3	NW
20250717.00	0.24	SE	2.1	2	E
20250717.03	0.24	SE	2.3	3	NE
20250717.06	0.25	SE	2.3	3	NE
20250717.09	0.25	SE	2.3	3	N
20250717.12	0.25	SE	2.3	3	SW
20250717.15	0.26	SE	2.2	4	E
20250717.18	0.30	SE	2.1	5	NW
20250717.21	0.30	SE	2.2	4	NW
20250718.00	0.27	SE	2.2	3	NW
20250718.03	0.25	SE	2.3	3	NW
20250718.06	0.23	SE	2.4	2	NW
20250718.09	0.23	E	2.2	3	W
20250718.12	0.34	NE	2.1	4	N
20250718.15	0.41	NE	2.3	3	N
20250718.18	0.34	NE	2.4	2	S
20250718.21	0.27	NE	2.6	3	S
20250719.00	0.24	NE	2.7	4	N
20250719.03	0.22	NE	2.7	5	W
20250719.06	0.20	NE	2.6	5	NW
20250719.09	0.18	NE	2.6	4	W
20250719.12	0.18	NE	2.5	3	E

Wind condition in the Aktau

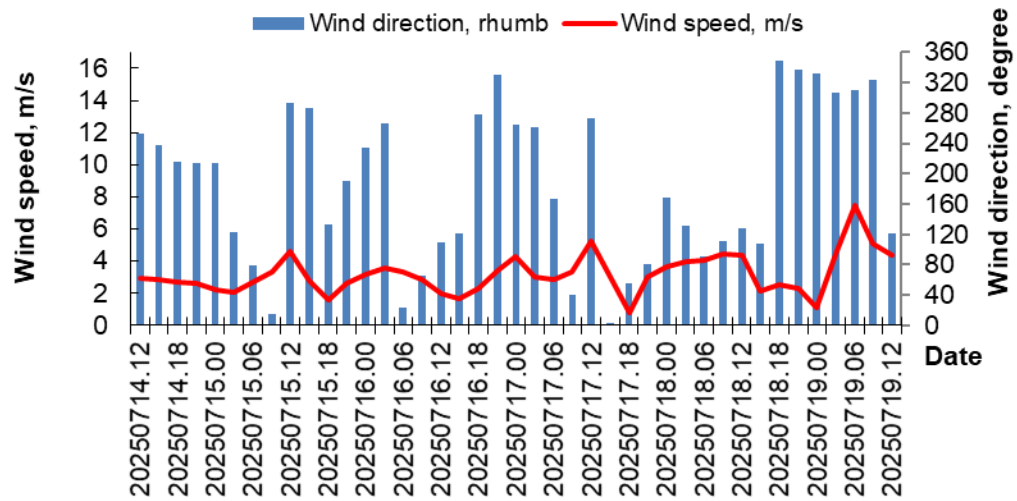


Wave condition in the Aktau

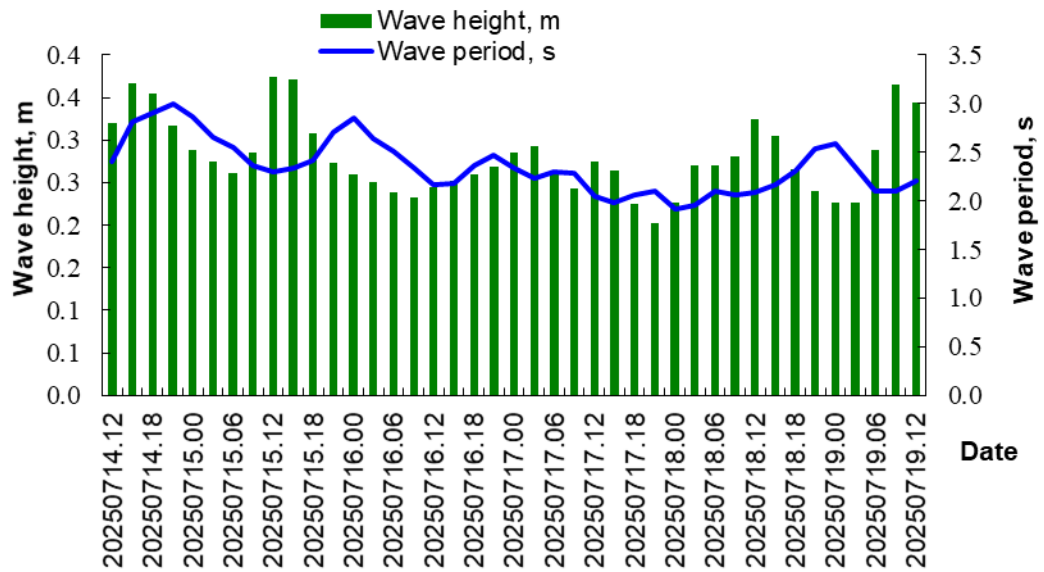


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250714.12	0.42	SE	2.5	2	NW
20250714.15	0.43	SE	2.8	1	W
20250714.18	0.37	SE	3.0	1	SW
20250714.21	0.32	SE	3.1	2	S
20250715.00	0.29	SE	3.1	3	S
20250715.03	0.27	SE	2.9	3	SE
20250715.06	0.26	E	2.6	3	SE
20250715.09	0.32	NE	2.5	6	NE
20250715.12	0.48	NE	2.7	6	N
20250715.15	0.59	NE	2.9	4	N
20250715.18	0.51	NE	3.0	1	S
20250715.21	0.40	N	3.1	1	E
20250716.00	0.33	N	3.0	1	NE
20250716.03	0.28	NW	3.0	1	N
20250716.06	0.24	NW	2.9	1	W
20250716.09	0.21	NW	2.7	1	N
20250716.12	0.21	N	2.3	2	N
20250716.15	0.24	E	2.0	2	W
20250716.18	0.27	E	2.1	3	W
20250716.21	0.27	E	2.2	2	W
20250717.00	0.26	E	2.4	0	W
20250717.03	0.25	E	2.5	1	SE
20250717.06	0.24	E	2.6	2	SE
20250717.09	0.24	E	2.4	1	S
20250717.12	0.24	E	2.3	1	W
20250717.15	0.25	E	2.1	1	E
20250717.18	0.24	E	2.1	4	S
20250717.21	0.25	E	2.0	4	E
20250718.00	0.26	NE	2.0	2	S
20250718.03	0.27	N	2.1	3	E
20250718.06	0.27	NW	2.2	4	SE
20250718.09	0.28	NW	2.1	4	S
20250718.12	0.31	NW	2.1	4	E
20250718.15	0.30	N	2.1	3	NE
20250718.18	0.26	N	2.2	3	N
20250718.21	0.24	N	2.5	3	NW
20250719.00	0.23	N	2.5	2	NE
20250719.03	0.22	N	2.3	3	NE
20250719.06	0.23	NE	2.2	2	SW
20250719.09	0.25	NE	2.3	4	E
20250719.12	0.26	E	2.4	4	SE

Wind condition in the Peschanyi

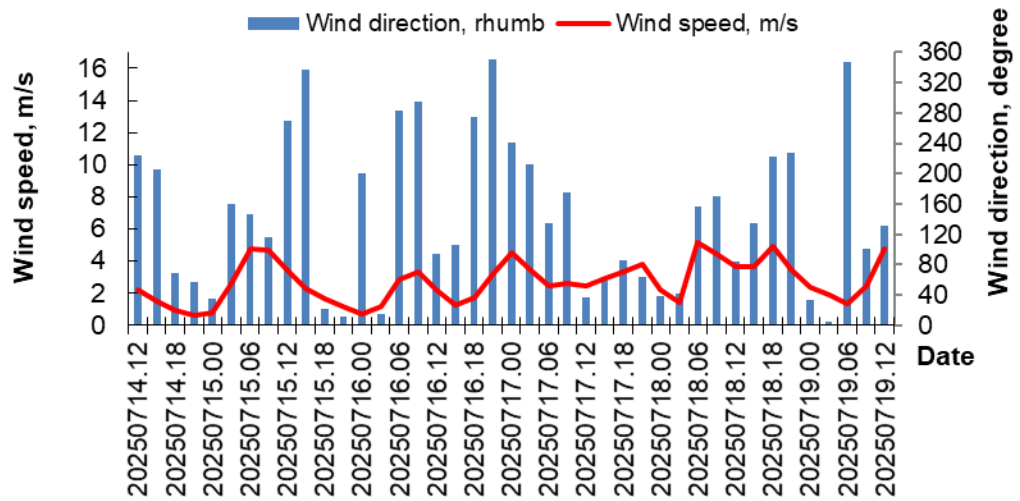


Wave condition in the Peschanyi

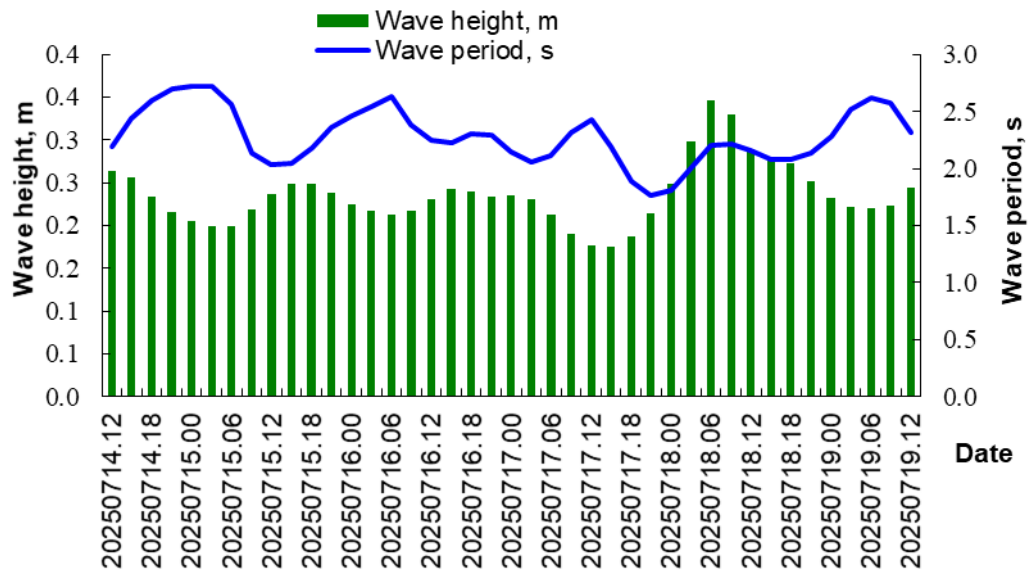


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250714.12	0.32	S	2.4	3	W
20250714.15	0.37	S	2.8	3	SW
20250714.18	0.35	SE	2.9	3	SW
20250714.21	0.32	SE	3.0	3	SW
20250715.00	0.29	SE	2.9	2	SW
20250715.03	0.27	SE	2.6	2	SE
20250715.06	0.26	SE	2.6	3	E
20250715.09	0.29	E	2.4	3	N
20250715.12	0.37	E	2.3	5	W
20250715.15	0.37	E	2.3	3	W
20250715.18	0.31	E	2.4	2	SE
20250715.21	0.27	NE	2.7	3	S
20250716.00	0.26	NW	2.9	3	SW
20250716.03	0.25	W	2.6	4	W
20250716.06	0.24	W	2.5	3	NE
20250716.09	0.23	NW	2.3	3	NE
20250716.12	0.24	N	2.2	2	E
20250716.15	0.25	NE	2.2	2	SE
20250716.18	0.26	NE	2.4	2	W
20250716.21	0.27	E	2.5	3	NW
20250717.00	0.29	SE	2.3	4	W
20250717.03	0.29	SE	2.2	3	W
20250717.06	0.26	SE	2.3	3	S
20250717.09	0.24	SE	2.3	3	NE
20250717.12	0.27	E	2.1	5	W
20250717.15	0.26	E	2.0	3	N
20250717.18	0.22	E	2.1	1	NE
20250717.21	0.20	E	2.1	3	E
20250718.00	0.23	NE	1.9	4	S
20250718.03	0.27	N	2.0	4	SE
20250718.06	0.27	N	2.1	4	E
20250718.09	0.28	NW	2.1	4	E
20250718.12	0.32	NW	2.1	4	SE
20250718.15	0.31	NW	2.2	2	E
20250718.18	0.27	NW	2.3	3	N
20250718.21	0.24	NW	2.5	2	NW
20250719.00	0.23	N	2.6	1	NW
20250719.03	0.23	N	2.3	4	NW
20250719.06	0.29	E	2.1	7	NW
20250719.09	0.37	SE	2.1	5	NW
20250719.12	0.34	SE	2.2	4	SE

Wind condition in the Fetisovo

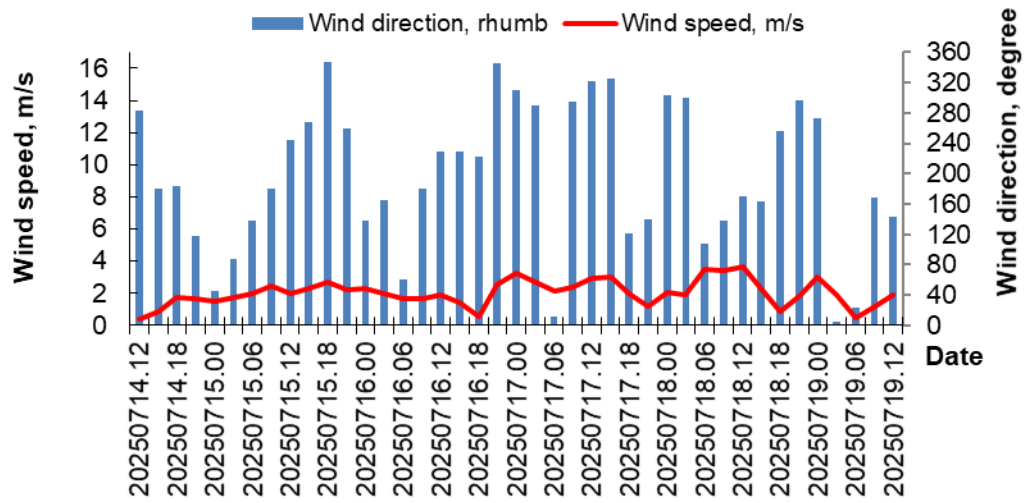


Wave condition in the Fetisovo

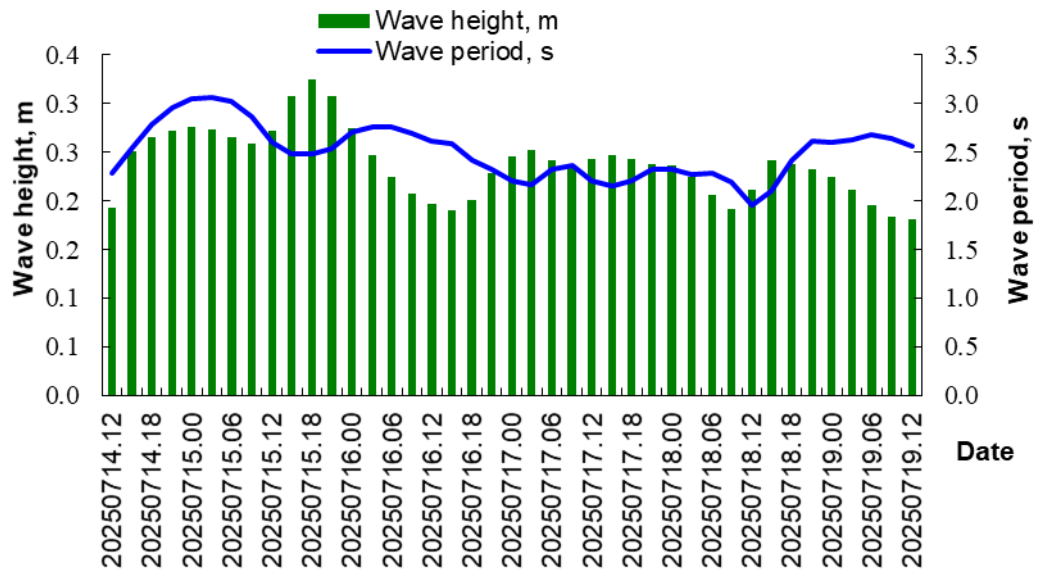


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250714.12	0.26	SE	2.2	2	SW
20250714.15	0.26	SE	2.4	2	SW
20250714.18	0.23	SE	2.6	1	E
20250714.21	0.22	SE	2.7	1	NE
20250715.00	0.21	SE	2.7	1	NE
20250715.03	0.20	SE	2.7	3	S
20250715.06	0.20	SE	2.6	5	SE
20250715.09	0.22	SE	2.1	5	SE
20250715.12	0.24	S	2.0	3	W
20250715.15	0.25	E	2.0	2	NW
20250715.18	0.25	N	2.2	2	N
20250715.21	0.24	N	2.4	1	N
20250716.00	0.23	NW	2.5	1	S
20250716.03	0.22	NW	2.5	1	N
20250716.06	0.21	NW	2.6	3	W
20250716.09	0.22	NW	2.4	3	NW
20250716.12	0.23	N	2.2	2	E
20250716.15	0.24	E	2.2	1	E
20250716.18	0.24	E	2.3	2	W
20250716.21	0.23	E	2.3	3	N
20250717.00	0.24	SE	2.1	4	SW
20250717.03	0.23	SE	2.1	3	SW
20250717.06	0.21	S	2.1	2	SE
20250717.09	0.19	SE	2.3	3	S
20250717.12	0.18	E	2.4	2	NE
20250717.15	0.18	NE	2.2	3	NE
20250717.18	0.19	NE	1.9	3	E
20250717.21	0.21	NE	1.8	4	NE
20250718.00	0.25	NE	1.8	2	NE
20250718.03	0.30	N	2.0	1	NE
20250718.06	0.35	N	2.2	5	SE
20250718.09	0.33	N	2.2	4	S
20250718.12	0.29	N	2.2	4	E
20250718.15	0.28	N	2.1	4	SE
20250718.18	0.27	N	2.1	5	SW
20250718.21	0.25	N	2.1	4	SW
20250719.00	0.23	N	2.3	2	NE
20250719.03	0.22	N	2.5	2	N
20250719.06	0.22	N	2.6	1	N
20250719.09	0.22	N	2.6	2	E
20250719.12	0.24	N	2.3	5	SE

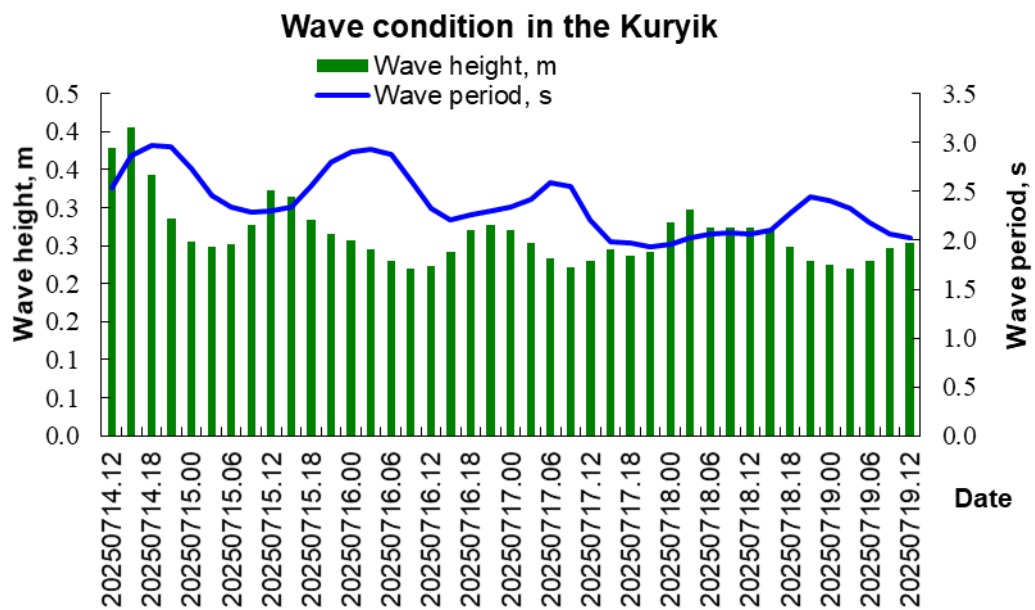
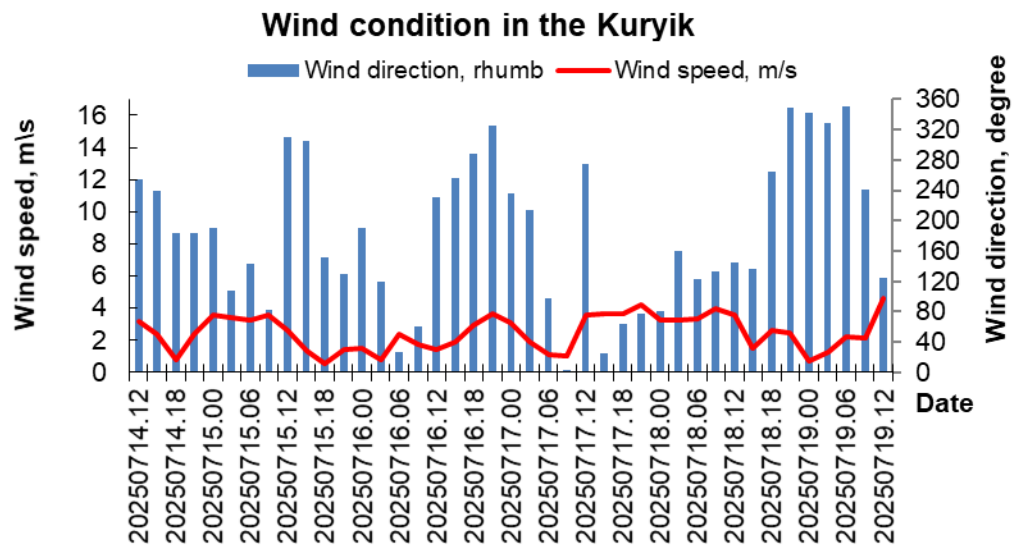
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250714.12	0.19	SE	2.3	0	W
20250714.15	0.25	SE	2.6	1	S
20250714.18	0.26	SE	2.8	2	S
20250714.21	0.27	SE	3.0	2	SE
20250715.00	0.28	SE	3.1	2	NE
20250715.03	0.27	SE	3.1	2	E
20250715.06	0.26	E	3.0	2	SE
20250715.09	0.26	E	2.9	2	S
20250715.12	0.27	E	2.6	2	SW
20250715.15	0.31	N	2.5	2	W
20250715.18	0.32	N	2.5	3	N
20250715.21	0.31	N	2.5	2	W
20250716.00	0.27	NE	2.7	2	SE
20250716.03	0.25	E	2.8	2	S
20250716.06	0.22	E	2.8	2	NE
20250716.09	0.21	E	2.7	2	S
20250716.12	0.20	SE	2.6	2	SW
20250716.15	0.19	SE	2.6	1	SW
20250716.18	0.20	SE	2.4	1	SW
20250716.21	0.23	SE	2.3	3	N
20250717.00	0.25	SE	2.2	3	NW
20250717.03	0.25	SE	2.2	3	W
20250717.06	0.24	SE	2.3	2	N
20250717.09	0.24	SE	2.4	2	NW
20250717.12	0.24	SE	2.2	3	NW
20250717.15	0.25	SE	2.2	3	NW
20250717.18	0.24	SE	2.2	2	SE
20250717.21	0.24	SE	2.3	1	SE
20250718.00	0.24	SE	2.3	2	NW
20250718.03	0.23	SE	2.3	2	NW
20250718.06	0.21	SE	2.3	3	E
20250718.09	0.19	SE	2.2	3	SE
20250718.12	0.21	NE	2.0	4	S
20250718.15	0.24	NE	2.1	2	S
20250718.18	0.24	NE	2.4	1	W
20250718.21	0.23	NE	2.6	2	NW
20250719.00	0.23	NE	2.6	3	W
20250719.03	0.21	NE	2.6	2	N
20250719.06	0.20	NE	2.7	0	NE
20250719.09	0.18	NE	2.6	1	S
20250719.12	0.18	NE	2.6	2	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250714.12	0.38	S	2.5	3	W
20250714.15	0.41	SE	2.9	2	SW
20250714.18	0.34	SE	3.0	1	S
20250714.21	0.29	SE	3.0	2	S
20250715.00	0.26	SE	2.7	4	S
20250715.03	0.25	SE	2.5	3	E
20250715.06	0.25	SE	2.3	3	SE
20250715.09	0.28	E	2.3	4	E
20250715.12	0.32	E	2.3	3	NW
20250715.15	0.31	E	2.3	1	NW
20250715.18	0.28	NE	2.5	1	SE
20250715.21	0.27	N	2.8	1	SE
20250716.00	0.26	NW	2.9	1	S
20250716.03	0.24	NW	2.9	1	SE
20250716.06	0.23	NW	2.9	2	NE
20250716.09	0.22	NW	2.6	2	NE
20250716.12	0.22	NW	2.3	1	SW
20250716.15	0.24	E	2.2	2	W
20250716.18	0.27	E	2.3	3	W
20250716.21	0.28	E	2.3	4	NW
20250717.00	0.27	SE	2.3	3	SW
20250717.03	0.25	SE	2.4	2	SW
20250717.06	0.23	SE	2.6	1	E
20250717.09	0.22	SE	2.5	1	N
20250717.12	0.23	E	2.2	4	W
20250717.15	0.25	E	2.0	4	NE
20250717.18	0.24	E	2.0	4	NE
20250717.21	0.24	NE	1.9	4	E
20250718.00	0.28	NE	2.0	3	E
20250718.03	0.30	N	2.0	3	S
20250718.06	0.27	N	2.1	3	SE
20250718.09	0.27	N	2.1	4	SE
20250718.12	0.27	NW	2.1	4	SE
20250718.15	0.27	N	2.1	1	SE
20250718.18	0.25	N	2.3	3	W
20250718.21	0.23	N	2.4	2	N
20250719.00	0.23	N	2.4	1	N
20250719.03	0.22	N	2.3	1	NW
20250719.06	0.23	NE	2.2	2	N
20250719.09	0.25	E	2.1	2	SW
20250719.12	0.25	E	2.0	5	SE

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

Compiled by: Zhagparova N.N.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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